

# Leica IP C and IP S

# Printer Driver Software For the Windows 8.1 (32/64 bit) and Windows 10 (64 bit) operating systems

Installation Instructions English

#### Order No.: 14060282101 - Revision C

Always keep this manual with the instrument. Read carefully before working with the instrument.

# CE

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## 1. Introduction

#### 1.1 Symbols and their meanings

# $\triangle$

## Warning

Leica Biosystems GmbH assumes no liability for consequential loss or damage due to failure to observe the following instructions, particularly in relation to transportation and package handling, and failure to observe the instructions for handling the instrument carefully.

Symbol:	Title of the symbol: Description:	Warning Warnings appear in a box and are marked by a warning triangle.
Symbol:	Title of the symbol:	Note
	Description:	Notes, i. e. important user information, appear in box and are marked by an information symbol.
Symbol:	Title of the symbol:	ltem number
→ "Fig. 7 - 1"	Description:	Item numbers for numbering illustrations. Numbers in red refer to item numbers in illustrations.
Symbol:	Title of the symbol:	Function key
<u>Start</u>	Description:	Function keys to be pressed on the instrument are displayed as bold, gray and undelined text.
Symbol:	Title of the symbol:	Software key and/or Display Messages
Ready	Description:	Software keys to be pressed on the display and/or messages on the display are displayed as bold, gray text.

#### 1.2 Overview

The Leica Biosystems website makes separate, up-to-date drivers for the Leica IP C/IP S printers available for download for the operating systems

- Windows 8.1 (64-bit) and
- Windows 10 (64-bit) operating systems.

These drivers are also available on the CD-ROM accompanying the printed Instructions for Use.

The installation is carried out in four steps:

- 1. Uninstalling or checking whether any IP printer drivers are preinstalled in the system.
- 2. Installing the help files for users.
- 3. Installing and configuring the printer driver.
- 4. Version check.

#### Note

An incomplete installation without, say, help files will not be accepted by the system.

The difference compared to previous drivers is the new help files, which, in the event of an error message, show the user corresponding on-screen instructions. The handling of these files is documented by an integrated help function.



### Note

The previous drivers for Windows XP Version 2.0, Windows Vista Version 2.34 and Windows 7 32-bit Version 2.40 remain in their current state instead of being further updated.

#### 1.3 Area of validity

For using the IP C/IP S printers with the Windows 8.1 or Windows 10 (64-bit) operating systems, including the new help function.

#### 1.4 General installation instructions

#### **Requirements**

- If necessary, the local IT administrator has to grant the user the needed user rights for installing the printer driver.
- For every printer to be installed, a functional COM port has to be available under the device manager before the installation is carried out.

#### **General**:

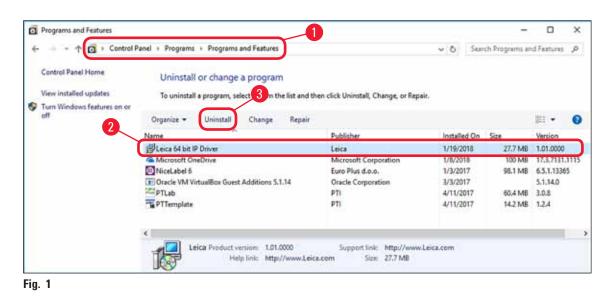
## Note

The IP printer driver and IP C or IP S printer installation is explained in this installation guide only for the Windows 10 operating system. The described procedures are similar on Computer with installed Windows 8.1 operating systems. When using the operating system Windows 8.1, individual menus and windows may differ from those shown here.

#### 2. Uninstalling existing IP printer driver installations

#### 2.1 Uninstall the existing IP printer driver software

- 1. Browse to Control Panel/Programs/Programs and Features ( $\rightarrow$  Fig. 1-1).
- 2. Browse the list of installed programs until you find the Leica IP Driver ( $\rightarrow$  Fig. 1-2).
- 3. Select the Leica IP Driver and click <u>Uninstall</u> ( $\rightarrow$  Fig. 1-3) on the task bar.



4. Confirm the system message with <u>Yes</u> ( $\rightarrow$  Fig. 2-1).

Programs and Features		
Are you sure you want to uninstall Leica 64 bit	IP Driver?	1
In the future, do not show me this dialog box	Yes	No

5. Windows is then preparing to remove the printer driver software ( $\rightarrow$  Fig. 3).



 After the preparation is done, the uninstallation of the IP driver software will be carried out (→ Fig. 3-2).

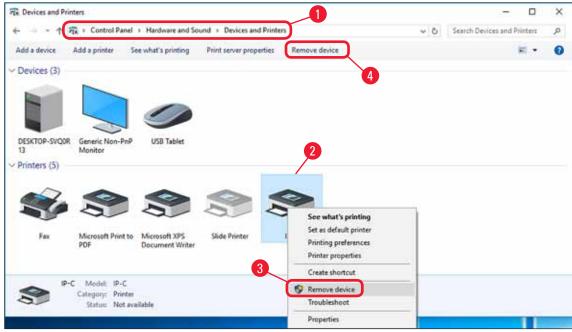
Windows Installer	Leica 64 bit IP Driver
Preparing to remove	Please wait while Windows configures Leica 64 bit IP Driver
1 Cancel	Time remaining: 31 seconds Cancel

Fig. 3

7. Check in the list of installed programs ( $\rightarrow$  Fig. 1), if the Leica IP Printer software has been removed.

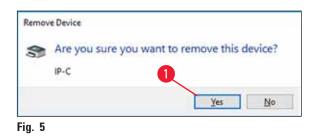
#### 2.2 Uninstall the IP printer

- 1. Browse to Control Panel/Hardware and Sound/Devices and Printers ( $\rightarrow$  Fig. 4-1).
- Either right click on the IP Printer (→ Fig. 4-2) to be uninstalled and select <u>Remove device</u> (→ Fig. 4-3) or left click on the IP Printer (→ Fig. 4-2) and click <u>Remove device</u> on the task line (→ Fig. 4-4).





3. Confirm the system message with <u>Yes</u> ( $\rightarrow$  Fig. 5-1).



✓ The IP Printer has been successfully removed.



#### **W**arning

Before proceeding with the next step ( $\rightarrow$  p. 9 – 2.3 Uninstalling the IP printer driver), close all applications and windows and restart the computer.

#### 2.3 Uninstalling the IP printer driver

- After deleting the printer icon and restarting the computer, any printer, such as Microsoft XPS
   (→ Fig. 6-1), can be selected with the right mouse button.
- The <u>Print server properties</u> menu (→ Fig. 6-2) appears in the system menu bar. Open this menu item by clicking it.

R Devices and Pri	inters					- 0	×
+ - +	PD > Control Pan	el + Hardware and Sc	und > Devices and Print	ers	~ O	Search Devices and Printers	p
Add a device	Add a printer	See what's printing	Print server properties	Remove device		<b>H</b> •	0
- Devices (3)				2			
DESKTOP-SVQ0R	Generic Non-Pri Monitor	P USB Tablet		0			
<ul> <li>Printers (5)</li> </ul>							
2	8	8	8				
Fax	Printer	Microsoft Print to PDF	Microsoft XPS S Document Writer	ide Printer			
M	icrosoft XPS Docu		<ul> <li>Microsoft XPS Documi</li> </ul>	ont Writer v4			
5		Categor Statu	r: Printer = 0 document(s) in queu				

Fig. 6

- 3. In the Print Server Properties menu ( $\rightarrow$  Fig. 7) select the <u>Drivers</u> tab ( $\rightarrow$  Fig. 7-1) and select the printer driver, for example, IP-C ( $\rightarrow$  Fig. 7-2).
- 4. Delete the driver by clicking <u>**Remove...**</u> ( $\rightarrow$  Fig. 7-3).

istalled grinter drivers: Name	Processor	Type
IP-C	164	Type 3 - User Mode
Microsoft enhanced Point		Type 3 - User Mode
Microsoft enhanced Point		Type 3 - User Mode
the second second second second	x64	Type 4 - User Mode
Microsoft XPS Document Slide Printer		Type 4 - User Mode
ande Printer	x64	Type 3 - User Mode
		•
		2
		3
Add	Remove	Properties

Fig. 7

- 5. To update to a new driver version, Remove driver and driver package (→ Fig. 8-2) has to be selected and confirmed with OK (→ Fig. 8-3). If only one IP printer is to be removed from among multiple installed IP printers, the selection Remove driver only (→ Fig. 8-1) is sufficient.
  6. Click Vac (→ Fig. 8-1) to confirm the system measage.
- 6. Click <u>Yes</u> ( $\rightarrow$  Fig. 8-4) to confirm the system message.

Remove Driver And Package	
Do you want to remove the driver(s) only, or remove the driver(s) and driver package(s) from your system? 2 Remove driver only. 3 Remove driver and driver package. 3 Cancel	Print Server Properties × Deleting this printer driver package will remove it from the system. Are you sure you want to delete IP-C? 4 <u>Yes</u> №

Fig. 8

- 7. Click <u>Delete</u> in the following window ( $\rightarrow$  Fig. 9-1).
- 8. After successful deletion, close this window by clicking  $OK (\rightarrow Fig. 9-2)$ .

Remove Driver Package	Remove Driver Package
Driver package information collected.	Driver package deleted.
The following package(s) will be deleted: ip.inf (x64) The following driver(s) will be deleted: IP-C (x64)	Driver IP-C was removed. Package ip.inf was removed.
Delete Cancel	2 ч Delete ОК



Click <u>Close</u> (→ Fig. 10-1) to close the Print Server Properties window to finish the uninstallation.

Print Server Properties		
ms Ports Drivers Security	Advanced	
DESKTOP-SVQDR13		
nstalled grinter drivers: Name	Processor	Туре
Microsoft enhanced Point	x64	Type 3 - User Mode
Microsoft enhanced Point	x86	Type 3 - User Mode
Microsoft Print To PDF	x64	Type 4 - User Mode
Microsoft XPS Document	x64	Type 4 - User Mode
Slide Printer	x64	Type 3 - User Mode
	•	
Add	Bernove	Properties

Fig. 10



#### Warning

- Close all open windows and restart the computer.
- Before restarting, save your current work to prevent data loss.

## 3. Install the IP printer driver and help files

#### Note

The following chapters describe how to install the printer driver, the printer and the help files to the directory C:\CSPrinter.

#### 3.1 Available printer driver versions for Windows 8.1 and Windows 10

Operating system	Driver version
Windows 8.1 / 32-bit	V3.2
Windows 8.1 / 64-bit	V3.3
Windows 10 / 64-bit	V4.3

#### Note

Go to the Leica Biosystems website and download the latest driver file Leica 64-bit IP Driver or Leica 32-bit IP Driver suitable for your operating system or use the corresponding file from the CD accompanying the printed Instructions for Use.

#### 3.2 Downloading the IP printer driver from the Leica Biosystems website

- 1. Open www.LeicaBiosystems.com in your browser and select the **Products** category, select **Specimen Labeling Products**, select either **IP C** or **IP S**,
- 2. click Documents and scroll down to the item Drivers,
- 3. select the driver necessary for your operating system from the drivers available,
- 4. right-click the corresponding file and select Save as...,
- 5. download the file and save it in a suitable folder on the computer's hard drive.

## Note

A version of the printer driver is also available on the Instructions for Use CD-ROM which is part of the standard scope of delivery of the printer IP C and IP S.

We recommend to always check on www.LeicaBiosystems.com for the most current version of the driver.

#### 3.3 Installing the printer driver

- 1. Browse to the folder on your local hard disc ( $\rightarrow$  Fig. 11-1) were you have downloaded the printer driver or open the printer driver folder on the CD-ROM.
- 2. Right click on the .... Driver.exe file ( $\rightarrow$  Fig. 11-2) and select Run as administrator ( $\rightarrow$  Fig. 11-3).

the second se	lication Tools IP Printer Manage			- □ × ^ Ø
Pin to Quick access Copy Copy Paste Cipboard	Move to • X Delete •	New folder New	operties	Select all Select none Invert selection Select
← → ∽ ↑ 🦲 → This PC → Local Dis	k (C:) → IP Printer	~ Ö	Search IP P	rinter 🔎
^ Name	<u>^</u>	Date modified	Туре	Size
Quick access     Quick access     Desktop	Abit V4.3 IP Driver.exe	10/3/2017 1:45 PM	1 Applicatio	on 12,423 KB
<ul> <li>Downloads * 2</li> <li>Documents * 2</li> <li>Pictures * 4</li> <li>VVBOXSVR\rece</li> <li>Music</li> <li>PTLab</li> <li>PTLab</li> <li>PTLab</li> <li>PTLab</li> <li>This PC</li> <li>1 item 1 item selected 12.1 MB</li> </ul>	Run as administrator     Troubleshoot compa Pin to Start     Mit Windows Defend     Pin to taskbar     Restore previous ver     Send to     Cut     Copy     Create shortcut     Delete	atibility der überprüfen	>	
	Rename Properties		_	

Fig. 11

- 3. The InstallShield Wizard is now extracting the required installation files ( $\rightarrow$  Fig. 12-1).
- 4. To abort the installation, press <u>Cancel</u> ( $\rightarrow$  Fig. 12-2).
- 5. To confirm having the InstallShield Wizard perform the installation, click <u>Next</u>. ( $\rightarrow$  Fig. 12-3).

Leica 64 bit IP Driver - Inst	talt5hield Wizard	💋 Leice 64 bit IP Driver - InstallShield Wizard	×
ی	Preparing to Install	Wekcome to the Instalishield 64 bit IP Driver	Wizard for Leica
	Leica 64 bit IP Driver Setup is preparing the InstallSheld Waard, which will guide you through the program setup process. Please wait.	The InstallPhield(R) Witard will install L your computer. To continue, click Next	
	Extracting: Leica 64 bit IP Driver.msi	WARRUNG: This program is protected b international treaties.	ry copyright law and
	2	3	
	Cancel	(gan) in gest 2	Cancel

Fig. 12

6. The following message box shows the License Agreement. Read it carefully, select I accept the terms in the license agreement (→ Fig. 13-1) and click Next (→ Fig. 13-2).

# **3** Install the IP printer driver and help files



 Fill in your User Name (→ Fig. 13-3) and Organization (→ Fig. 13-4) in the next message box and click <u>Next</u> (→ Fig. 13-5).

## Note

If I do not accept the terms in the license agreement is selected, the driver will not be installed.

8. In the next step, confirm the installation on drive C:\ ( $\rightarrow$  Fig. 13-6) by clicking <u>Next</u> ( $\rightarrow$  Fig. 13-7).

/	<u>_</u>	
-	-	-

Warning

#### Do not alter the installation path!

👹 Leice 64 bit IP Driver - InstallShield Wizard	× gl Leice 64 bit IP Driver - InstallShield Witard	×
License Agreement	Customer Information	4
Please read the following Icense agreement carefully.	Please enter your information.	0
	A User Name: 3	
	Windows User	
1. LEICA Biosystems Nussloch GmbH (hereinafter referred to as	Organization:	
"COMPANY") grants the customer non-limited and non-exclusive right to use {license} the LEICA IP Driver W10 contained in this packaging (hereinafter referred to as "SOFTWARE"). The delivery of the source code		
is not included in the delivery.		
	•	
I accept the terms in the locense agreement     Of do not accept the terms in the locense agreement		•
	1. 1. 1. 1. 1.	5
InterPret	Instativies	
< gadk ljext > Cance	< Badt	Next > Cancel
👷 Leice 64 bit IP Driver - InstallShield Witcard	x	
Destination Folder	Provide State	
Ock Next to install to this folder, or click Change to install to a different folder.	4.a	
Countext or install to this lober, or cost change or install to a cinterest south.		
Install Leica 64 bit IP Driver to:		
Ci) Durge	**	
6		/
Installheid		
<gadk ljext=""> Cance</gadk>		

Fig. 13

Click on <u>Install</u> (→ Fig. 14-1) to start the installation process. The installation process may take several minutes (→ Fig. 14-2).

Juica 64 bit IP Driver - InstallShield Wizard	🗙 👷 Leice 64 bit IP Driver - InstallShield Wizard 🛛 🗕 🖄
Ready to Install the Program	Installing Leica 64 bit IP Driver
The wizard is ready to begin installation.	The program features you selected are being installed.
If you want to review or change any of your installation settings, dick Back. Click Can exit the wizard.	
Current Settings:	Status:
Setup Type:	
Typical	
Destination Folder:	
C/\	2
User Information: Name: Windows-Benutzer	-
Company:	
retatSheld	Install/veld
< gadk [nstal] C	e gata gestro Cance

Fig. 14

10. Once the installation is finished, click Finish ( $\rightarrow$  Fig. 15-1) to close the InstallShield Wizard  $(\rightarrow$  Fig. 15).





#### Note

After successful installation of the driver, installation of the printer begins automatically. Continue with the installation with ( $\rightarrow$  p. 15 – 3.4 Install the printer).

#### 3.4 Install the printer

#### Warning /!\

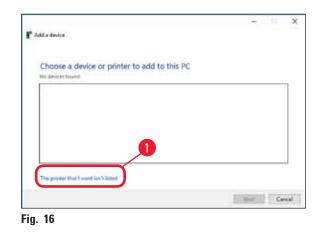
The installation of the printer cannot be carried out without previous installation of the printer directory.



#### Note

Installation step 3 starts ( $\rightarrow$  p. 5 – 1.2 Overview) automatically after the printer directory has been created in installation step 2.

 The Add a device (→ Fig. 16) menu appears. Click <u>The printer that I want isn't listed</u> (→ Fig. 16-1).



- In the next menu, select Add a local printer or network printer with manual settings (→ Fig. 17-1) and click <u>Next</u> (→ Fig. 17-2).
- Select Use an existing port (→ Fig. 17-3) in the following menu and click on the drop down menu.
- 4. Choose COM3: (Serial Port) ( $\rightarrow$  Fig. 17-4) in the list and click <u>Next</u> ( $\rightarrow$  Fig. 17-5).

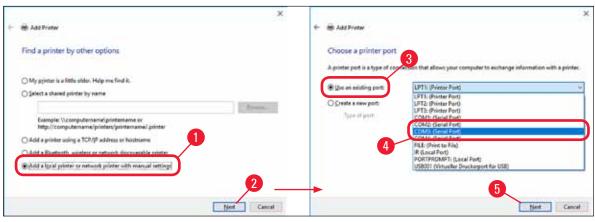


Fig. 17

## Note

The IP C/IP S printers have to be installed on a free COM port. A suitable COM port can be found under **System\Control Panel\Device Manager** under Ports (COM & LPT1). If an RS-232 port is lacking, a tested USB to RS-232 converter (serial to USB) must be installed. This adapter is not available in the printer's scope of delivery and has to be purchased from a specialist shop.

Click <u>Have Disk...</u> (→ Fig. 18-1) and then click <u>Browse</u> (→ Fig. 18-2) in the following Install From Disk (→ Fig. 18-3) menu.



#### Warning

**NEVER** select an IP C/IP S printer driver via the **Manufacturer** ( $\rightarrow$  Fig. 18-4) and/or **Printers** ( $\rightarrow$  Fig. 18-5) selection fields, because the outdated versions can also be shown here and selected.

×	3	
Add Protei		
Install the printer driver	Install From Disk	;
Choose your printer from the list. Click Windows Update to see more models.     To install the driver from an installation CD, click Have Diak.	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	ОК
4	-	Cancel
Manufactures Protein Besther Cares Besther Color Leg Typel Class Driver Dell Estimus Rodak Company Besther Color Typel Class Driver	Copy manufacturer's files from:	
Phis shore is digitally signed.     Minimum signing is, important     Minimum signing is, important	A/\ ~	Browse

Fig. 18

- 6. Navigate to the folder C:\CSPrinter\.... (→ Fig. 19-1) on your hard disk to install the 64-bit driver or the 32-bit driver for your operating system.
- 7. Select the ip.inf ( $\rightarrow$  Fig. 19-2) driver file (1) and confirm the selection by clicking <u>Open</u> ( $\rightarrow$  Fig. 19-3).

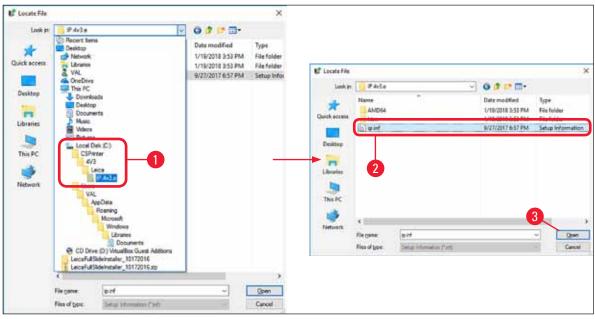
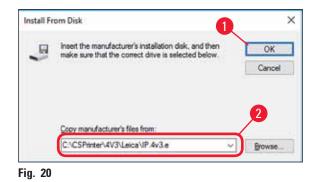


Fig. 19

8. After selecting the file ( $\rightarrow$  Fig. 20-2), click on <u>OK</u> ( $\rightarrow$  Fig. 20-1) in the Install From Disk menu.



Select the IP printer to be installed (IP-C or IP-S) (→ Fig. 21-1) and confirm your selection by clicking <u>Next</u> (→ Fig. 21-2).

#### Note

If multiple IP printers are to be operated on a computer, the respective driver for these printers must also be installed under Control Panel/Hardware and Sound/Devices and Printers/Add a printer by selecting ( $\rightarrow$  Fig. 4) Add a local printer or network printer with manual settings ( $\rightarrow$  Fig. 17-2).

10. Use the suggested printer name (for example, IP-C) ( $\rightarrow$  Fig. 21-3) and confirm the selection with <u>Next</u> ( $\rightarrow$  Fig. 21-4).

## D Note

If multiple IP C printers are installed, IP-C 1 or IP-C 2, for example, can be entered here ( $\rightarrow$  Fig. 21-3).

← ∰ AddProter	← ∰ Add Frome
Install the printer driver Choose your printer from the list. Click Windows Update to see more models. To install the driver from an installation CD, click Have Disk.	Type a printer name Brinter name This printer will be installed with the IP-C driver.
Printers	
Influme who driver staning is important	4

Fig. 21





- After the installation has been successfully completed, the Printer Sharing (→ Fig. 23-1) dialog appears. Select the Do not share this printer (→ Fig. 23-2) option and confirm your selection by clicking Next (→ Fig. 23-3).
- Click <u>Print a test page</u> (→ Fig. 23-4) to test whether communication between the computer and printer functions properly.

	Note
0	Due to the size of the printable surface of a specimen slide or a cassette, no printout will be discernible. The test print merely indicates that the connection between printer and computer has been set up correctly.

#### 13. Click <u>Finish</u> ( $\rightarrow$ Fig. 23-5) to complete the installation.

× all Add Protes	→ #8 Add Proter
Printer Sharing1	You've successfully added IP-C
If you want to share this privite, you must provide a share name. You can use the suggested name or type a new one. The share name will be visible to other network users.	To check if your printer is working property, or to see boubleshooting information for the printer, print a bot page.
Share this printer so that others on your network can find and use it     Rows many     PC	4
Lorannov Communiti	
3	5
Net Cancel	Esish Cancel

Fig. 23

14. Close all applications and restart the computer.



#### Note

Select the Set as the default printer option ( $\rightarrow$  Fig. 24-1) only if no other printer is operated on this computer.

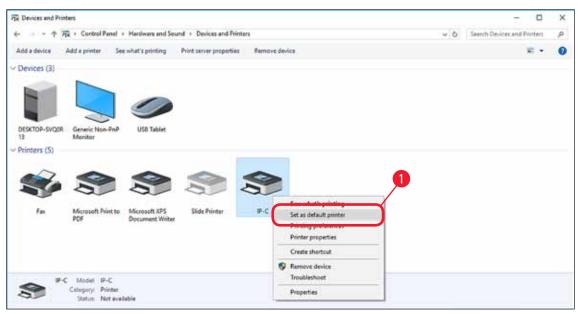


Fig. 24

### 4. Verify installation

#### 4.1 Version check

Note

# 

It is mandatory to verify that the correct IP printer driver version has been installed after the restart of the computer.

To verify the installation, proceed as follows:

- 1. Browse to Control Panel/Hardware and Sound/Devices and Printers ( $\rightarrow$  Fig. 25-1).
- 2. Mark the installed IP printer (for example IP-C) with a single left click ( $\rightarrow$  Fig. 25-2).
- 3. Click on <u>Print server properties</u> ( $\rightarrow$  Fig. 25-3).

The Devices and P	rinters					- 0	×
+ - +	7 > Control Pa	nel + Hardware and Se	und + Devices and Printe	173	~ 0	Search Devices and Printers	ρ
Add a device	Add a printer	See what's printing	Print server properties	Ramove devica		÷ •	0
Devices (3)		3	Shows the pro perver.	porties for this print			
DESKTOP-SVQE 13 Printers (5)	R Generic Non- Monitor	PmP US8 Tablet		2			
S.		8	8	5			
fm	Microsoft Prie PDF	nt to Microsoft XPS Document Write	Slide Printer	IP-C			
2	Celegoryl Pri Statum No	idet					

Fig. 25

In the Print Server Properties menu (→ Fig. 26-1), select the Drivers tab (→ Fig. 26-2), select the IP-C printer just installed (→ Fig. 26-3) and click Properties (→ Fig. 26-4).

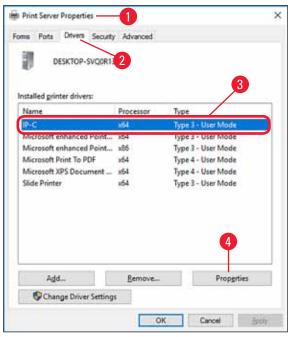


Fig. 26

- 5. Select the Dependent File csprt.DLL ( $\rightarrow$  Fig. 27-2) in the Driver Properties ( $\rightarrow$  Fig. 27-1).
- 6. Open the file by clicking **Properties** ( $\rightarrow$  Fig. 27-3).

	1 Properties Close		
Preseduat Ella	seastless dil		
Dependent File	csprt/mr.dll		
Dependent File	csprt.Dll		
Driver File	UNIDRV DLL		
Data File	ipc.GPD ==		
Description	File 2 ^		
Driver path:	C:\Windows\system32\spool\DRIVERS\x64\3		
Default data type:			
Language monitor:	CSPRT Language Monitor C		
Processor:	x64		
Version:	Type 3 - User Mode		
Name:	IP-C		
viver Properties	-1		

In the csprt.DLL Properties (→ Fig. 28-1), select the Details tab (→ Fig. 28-2). The installed Product version (→ Fig. 28-3) of the Windows 10 64-bit driver must be displayed as Version 4.3.0.0.



#### Note

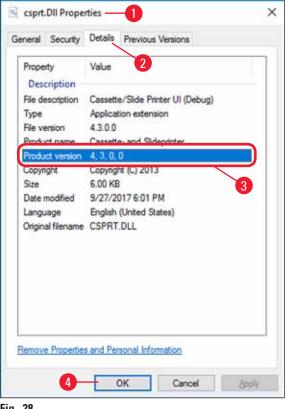
If the driver was installed on a Windows 8.1 operation system, the driver version displayed should be Version 3.3.0.0 for Windows 8.1 64-bit (2). If the Windows 8.1 32-bit driver was installed, the correct File version is 3.2.0.0.

4

## Warning

If any other version than those listed above is displayed, the driver has to be uninstalled and reinstalled.

 If the corresponding driver was correctly installed, close the csprt.DLL Properties window by clicking <u>OK</u> (→ Fig. 28-4).



- Fig. 28
- 9. Close all windows that are still open to return to the desktop.

## Note

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